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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,975	12/15/2003	Nils Zander	TRAUMA 3.0-449	4263
530	7590 09/19/2006		EXAM	INER
LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK			RAMANA, ANURADHA	
600 SOUTH AVENUE WEST			ART UNIT	PAPER NUMBER
WESTFIELD	O, NJ 07090		3733	
			DATE MAILED: 09/19/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	10/735,975	ZANDER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Anu Ramana	3733				
The MAILING DATE of this communical Period for Reply	tion appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAI - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communi - If NO period for reply is specified above, the maximum statut - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNION COMMUNICATION COMMUNICATION COMMUNICATION COMMUNICATION COMMUNICATION COMMUNION COMMUNICATION COMMUNICAT	CATION. eply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed	on <u>30 June 2006</u> .					
• • • •	☐ This action is non-final.					
closed in accordance with the practice	under Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.						
4a) Of the above claim(s) <u>5-10</u> is/are w	4a) Of the above claim(s) <u>5-10</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-4 and 11-24</u> is/are rejected.)⊠ Claim(s) <u>1-4 and 11-24</u> is/are rejected.					
· · · · · · · · · · · · · · · · · · ·	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	on and/or election requirement.					
Application Papers						
9) The specification is objected to by the E						
10)⊠ The drawing(s) filed on <u>15 December 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) The oath or declaration is objected to b	y the Examiner. Note the attached	d Office Action of form P10-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)☐ Some * c)☐ None of: 1.⊠ Certified copies of the priority documents have been received.						
<u> </u>						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the Internationa						
* See the attached detailed Office action for a list of the certified copies not received.						
		· .				
Advantage and a						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🗍 Interview 9	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTC)-948) Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/15/03:4/30/04.	5) ☐ Notice of I 6) ☐ Other:	nformal Patent Application				
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Application/Control Number: 10/735,975

Art Unit: 3733

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of the invention of Group I (claims 1-4 and 11-24) in the reply filed on June 30, 2006 is acknowledged.

Drawings

The drawings are objected to because they appear to be informal drawings. Formal drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application.

The drawings are also objected to under 37 CFR 1.83(a) for not showing the features of claim 1. The drawings must show every feature of the invention specified in the claims. Therefore, "at least one cross bore at the two ends of the nail shank" must be shown or the feature canceled from the claim. No new matter should be entered.

Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action.

Application/Control Number: 10/735,975

Art Unit: 3733

Claim Objections

In claim 22, line 5, delete "a (second occurrence)," to correct a minor typographical error. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4, 11-21 and 24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 7, the functional recitation "for fixing" is incomplete rendering the claim indefinite since it is unclear what is being fixed.

In claim 11, "said nail shank" lacks antecedent basis. The Examiner is interpreting the claim to be directed to the combination of a nail, bone screw and biasing element for purposes of examination.

In claim 24, lines 3-4, the phrase, "comprising said biasing sleeve by tightening said bone screw" renders the claim vague and indefinite since it is unclear what Applicants' are trying to claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/735,975

Art Unit: 3733

Claims 1-3, 11, 16, 22 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawes (US 5,454,813) in view of Hodgeman et al. (US 6,235,031).

Lawes discloses a locking nail 1 having at least one cross bore at each of a first and a second end, a headed locking screw (7, 19) and a biasing sleeve 12 with a radial flange 15 to fix the screw from rotating with respect to the nail (Figs. 1, 5 and 6, col. 3, lines 35-67 and col. 4, lines 1-38).

Lawes discloses all elements of the claimed invention except for the material of construction of the sleeve.

Hodgeman et al. teach making all the parts of an intramedullary fracture fixation device from Titanium Alloy for its optimum strength and biocompatibility (col. 4, lines 11-13).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have constructed the sleeve 12 of titanium alloy since it was well known in the art to construct parts of an intramedullary fracture fixation device from Titanium Alloy, for its optimum strength and biocompatibility.

It is the Examiner's position that resiliency is an inherent property of Titanium Alloy. Thus, sleeve 12 would resiliently deform in an axial direction in the device of the combination of Lawes and Hodgeman et al. Note, that sleeve 12 is under compression by forces exerted by the set screw 3 (refer Fig. 4 of EP 0321170) placed in bore 23 and head 19 abutting against an end of the sleeve.

The method steps of claims 22 and 23 are performed when the device of the combination of Lawes and Hodgeman et al. is assembled for intramedullary fracture fixation.

Allowable Subject Matter

Claims 4, 12-15, 17-21 and 24 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Art Unit: 3733

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anu Ramana whose telephone number is (571) 272-4718. The examiner can normally be reached Monday through Friday between 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached at (571) 272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

walka lamara September 16, 2006